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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,655	04/23/2002	Kari Hasanen	9926.1019	4257

21831 7590 11/29/2005

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EXAMINER

KOYAMA, KUMIKO C

ART UNIT PAPER NUMBER

2876

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/980,655

Applicant(s)

HASANEN ET AL.

Examiner

Kumiko C. Koyama

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Request for Reconsideration received on October 26, 2005 has been acknowledged.

After careful consideration of Applicant's Request for Reconsideration and arguments during the interview, the Examiner has discussed the matter with a primary examiner and has decided to withdraw the Final Rejection. Accordingly, prosecution is hereby reopened and a new rejection has been provided below. Therefore, this office action is non-final.

Specification

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Objections

2. Claims 1-7 and 9 are objected to because of the following informalities:

Re Claim 1, line 4-5 and Claim 5, lines 2-3: The claim recites "monitoring and storing changes taking place in the properties and ambient conditions and the changes taking place in said properties and ambient conditions." The phrase "changes taking place in said properties and ambient conditions" is repeated twice. The Examiner respectfully suggests changing such phrase to "monitoring and storing changes taking place in the properties and ambient conditions" or clarification of this matter.

Re Claim 5, line 5: "is arranged a memory" should be changed to --is arranged with a memory--.

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Re Claim 5, line 6: "in which can be written" should be changed to --in which is written--

Re Claim 5, line 6: "which can be read electrically" should be changed to --is read electrically--.

Re claim 4, line 2: "the memory unit is continuously stored an amount of data" should be changed to --the memory unit continuously stores an amount of data--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Allonen (US 5,379,652).

Re claims 1 and 5: Allonen teaches a method for measuring the nip force and/or the nip pressure in a nip formed by a revolving roll in the manufacture of paper by utilizing a series of measurement detectors (col 1, lines 5-10). Allonen discloses that detectors are placed in operative relationship with a surface of the first press member (roll) in an axial direction thereof, and the detectors detecting a force in a nip formed in part by the first press member (roll) and generating a signal based thereon (col 10, lines 23-27). Allonen also discloses that a buffer memory 25b in which the measurement data obtained from the detectors 20 can be collected and

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the buffer memory is connected via an RS323 bus to a transmitter/receiver 27 having a transmitter/receiver antenna (col 6, lines 45-51 and col 6, lines 50-57). Such disclosures teach monitoring and storing properties and ambient conditions of a roll of a machine. Allonen also discloses that the signal of each measurement detector is passed to a telemeter transmitter placed in connection with the revolving roll and the telemetric message is transmitted by the telemeter transmitted wirelessly and is received by a telemeter receiver placed outside the revolving roll and connected to the PC (col 1, lines 17-25 and col 4, lines 54-64). Such disclosure teaches transmitting the stored changes to a separate data processing system. As described above, Allonen teaches that the measurement data obtained from the detectors are collected in the buffer memory, and such disclosure teaches arranging in the roll, a memory which accompanies the roll when the roll is a functional part of the machine, in which memory unit is written and read electrically. Allonen further teaches that the invention is to provide a new and improved system of measurement for use in a paper machine roll and which can be controlled in a simple way from outside the revolving roll so that, in the system, measurement data and calibration data can be fed from outside the roll into the measurement system and measurement data can be transferred from the roll wirelessly to an outside system (col 3, lines 40-52). The outside system is preferably provided with various processing and computing programs for the measurement data (col 3, lines 40-52). Such disclosure teaches storing in the memory unit at least those properties of the roll which effect on control values of the machine, and the storing taking place in connection with a servicing of the roll in question before the roll is taken to be stored for later use as a function part of the machine. The above disclosure also teaches transmitting the stored changes in the memory unit to the control unit of the machine or separate data processing

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system, which is used for serving data to the control unit. Since the measurement data collected is the nip force and/or nip pressure in the nip of the roll, Allonen teaches that the memory unit accompanies the roll concerning the operations carried out during the servicing of the roll.

Re claims 2 and 6: The measurement amplifier unit 29, which includes the processor 25 (col 6, lines 45-56), is a control unit and the PC 44 is the separate data processing system (col 6, lines 55-68 and Fig. 4). The measurement data is transmitted and received between the measurement amplifier unit 29 and the PC 44 using the wireless telemetric connection (col 6, lines 55-68). Allonen further teaches that the invention is to provide a new and improved system of measurement for use in a paper machine roll and which can be controlled in a simple way from outside the revolving roll so that, in the system, measurement data and calibration data can be fed from outside the roll into the measurement system and measurement data can be transferred from the roll wirelessly to an outside system (col 3, lines 40-52). The outside system is preferably provided with various processing and computing programs for the measurement data (col 3, lines 40-52).

Re claims 3 and 7: Allonen teaches detectors 20i, which are sensors for observing the state of the roll and its ambient conditions, and a buffer memory in which the measurement data obtained from the detectors 20i can be collected (col 6, lines 45-52).

Re claims 4 and 8: Allonen further teaches that the detectors 20i are calibrated at regular intervals. The calibration program can be started either automatically at certain intervals or by the operator manually by the intermedicate of the keyboard of the PC 44 (col 8, lines 38-50).

Response to Arguments

5. Applicant's arguments with respect to claims 1-7 and 9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thorn, U.S. Patent No. 5,206,588, discloses an apparatus and process for the non-destructive measurement of the ohmic resistance of a thin layer using eddy currents.

Thorn, U.S. Patent No. 4,682,105, discloses an apparatus for electrically contactlessly measuring the thickness of electrically conducting thin films on non-conducting traveling webs in vacuum deposition apparatus.

Shakespeare, U.S. Patent No. 6,441,904, discloses a method and apparatus for measuring properties of a moving fiber web.

Loch, U.S. Patent No. 4,055,077, discloses a method and apparatus for the moisture measurement of textile webs.

Suzuki, U.S. Patent No. 5,588,762, discloses a paper discharge apparatus.

Otsuki, U.S. Patent No. 6,688,791, discloses roll paper printing system, method for managing remaining amount of roll paper, recording medium, roll paper with memory.

Kanou, JPO Sho60-87158, discloses residual quantity sensing device for roll paper.

Inagaki, JPO 2002-337409, discloses a roll paper printer.


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kumiko C. Koyama whose telephone number is 571-272-2394. The examiner can normally be reached on Monday-Friday 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on 571-272-2398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Kumiko C. Koyama
November 25, 2005


KARL D. FRECH
PRIMARY EXAMINER